

Application No. 10/719,332
Response to Office Action

Customer No. 01933

Listing of Claims:

1. (Currently Amended) A radiation image radiographing apparatus for mammography which radiographs a patient in an upright position comprising:

a radiation source;

5 a subject platform for supporting a subject so as to face the subject to the radiation source while the patient is in the upright position;

a pressure plate, which is movable up and down with respect to the subject platform, for pressing and fixing the subject; and

10 a plurality of supporting platforms for supporting a radiation image information detecting member for detecting radiation image information based on radiation transmitted through the subject, said plurality of supporting platforms being positioned on an opposite side of the subject platform with
15 respect to the radiation source;

wherein the plurality of supporting platforms are provided at fixed distances from the radiation source, and at least two said supporting platforms are provided at respective different distances from the radiation source;

20 wherein at least one of the supporting platforms is provided at a position suitable for radiographing an absorption contrast image, and at least another one of the supporting platforms is

Application No. 10/719,332
Response to Office Action

Customer No. 01933

provided at a position suitable for radiographing a phase
contrast image; and

25 wherein each of the plurality of supporting platforms is
individually movable to be evacuated from a position in which the
supporting platform faces the radiation source.

Claims 2 and 3 (Canceled).

4. (Previously Presented) The apparatus of claim 1, further
comprising a controller including a switcher for switching
between radiography modes corresponding respectively to the
plurality of supporting platforms,

5 wherein the controller controls irradiation conditions of
the radiation source in accordance with an output of the
switcher.

5. (Previously Presented) The apparatus of claim 1, wherein
the radiation image information detecting member comprises a
photostimulable phosphor plate.

6. (Previously Presented) The apparatus of claim 1, wherein
the radiation image information detecting member comprises a flat
panel detector.

Application No. 10/719,332
Response to Office Action

Customer No. 01933

7. (Original) The apparatus of claim 1, further comprising an input device for inputting a radiography mode.

8. (Previously Presented) The apparatus of claim 7, wherein the input device comprises a radiation operation panel comprising keys for selecting the radiography mode.

9. (Previously Presented) The apparatus of claim 4, wherein each of the plurality of supporting platforms comprises a sensor for detecting whether the supporting platform comprising the sensor is usable for radiography, and

5 wherein at least when the phase contrast radiography is to be performed, the controller automatically obtains one of the radiography modes as a mode to be used based on an output of each sensor with respect to a status of each of the plurality of supporting platforms.

10. (Previously Presented) The apparatus of claim 4, wherein when a magnified image is radiographed using the phase contrast image radiography, the controller reduces a size of the magnified image back to substantially full scale to be output.

Claims 11 and 12 (Canceled).

Application No. 10/719,332
Response to Office Action

Customer No. 01933

13. (Original) The apparatus of claim 1, wherein at least one of the plurality of supporting platforms detachably supports the radiation image information detecting member.

14. (Previously Presented) The apparatus of claim 1, wherein at least one of the plurality of supporting platforms is detachably attached to a body of the radiation image radiographing apparatus.

15. (Previously Presented) The apparatus of claim 1, wherein at least one of the plurality of supporting platforms is swingably mounted on a body of the apparatus.

16. (Previously Presented) The apparatus of claim 1, wherein at least one of the plurality of supporting platforms is retractable.

17. (Previously Presented) The apparatus of claim 1, wherein at least one of the plurality of supporting platforms is mounted on a body of the apparatus to be movable along an irradiation direction of the radiation from the radiation source.

Claim 18 (Canceled).

Application No. 10/719,332
Response to Office Action

Customer No. 01933

19. (Previously Presented) The apparatus of claim 15,
wherein the at least one of the plurality of supporting platforms
comprises a cut portion, and is rotatable such that when the at
least one of the plurality of supporting platforms rotates, at
5 least a part of one of the other plurality of supporting
platforms and the subject platform passes through the cut
portion.

20. (Previously Presented) The apparatus of claim 15,
wherein said at least one supporting platform that is provided at
a position suitable for radiographing a phase contrast image
comprises at least two of the plurality of supporting platforms.

21. (Previously Presented) The apparatus of claim 15,
wherein sizes of the plurality of supporting platforms and the
subject platform decrease as distances thereof from the radiation
source become shorter.

22. (Previously Presented) The apparatus of claim 15,
wherein the radiation image information detecting member
supported by a supporting platform located closest to the
radiation source among the plurality of supporting platforms is
larger than the subject.

Application No. 10/719,332
Response to Office Action

Customer No. 01933

23. (New) A radiation image radiographing apparatus
comprising:

a radiation source;

a subject platform for supporting a subject so as to face
5 the subject to the radiation source; and

a plurality of supporting platforms for supporting a
radiation image information detecting member for detecting
radiation image information based on radiation transmitted
through the subject, said plurality of supporting platforms being
10 positioned on an opposite side of the subject platform with
respect to the radiation source;

wherein the plurality of supporting platforms are provided
at fixed distances from the radiation source, and at least two
said supporting platforms are provided at respective different
15 distances from the radiation source;

wherein at least one of the supporting platforms is provided
at a position suitable for radiographing an absorption contrast
image, and at least another one of the supporting platforms is
provided at a position suitable for radiographing a phase
20 contrast image;

wherein each of the plurality of supporting platforms is
individually movable to be evacuated from a position in which the
supporting platform faces the radiation source;

Application No. 10/719,332
Response to Office Action

Customer No. 01933

wherein at least one of the plurality of supporting
25 platforms is swingably mounted on a body of the apparatus; and
wherein the at least one of the plurality of supporting
platforms comprises a cut portion, and is rotatable such that
when the at least one of the plurality of supporting platforms
rotates, at least a part of one of the other plurality of
30 supporting platforms and the subject platform passes through the
cut portion.

24. (New) A radiation image radiographing apparatus
comprising:

a radiation source;

a subject platform for supporting a subject so as to face
5 the subject to the radiation source; and

a plurality of supporting platforms for supporting a
radiation image information detecting member for detecting
radiation image information based on radiation transmitted
through the subject, said plurality of supporting platforms being
10 positioned on an opposite side of the subject platform with
respect to the radiation source;

wherein the plurality of supporting platforms are provided
at fixed distances from the radiation source, and at least two
said supporting platforms are provided at respective different
15 distances from the radiation source;

Application No. 10/719,332
Response to Office Action

Customer No. 01933

wherein at least one of the supporting platforms is provided at a position suitable for radiographing an absorption contrast image, and at least another one of the supporting platforms is provided at a position suitable for radiographing a phase

20 contrast image;

wherein each of the plurality of supporting platforms is individually movable to be evacuated from a position in which the supporting platform faces the radiation source;

25 wherein at least one of the plurality of supporting platforms is swingably mounted on a body of the apparatus; and

wherein sizes of the plurality of supporting platforms and the subject platform decrease as distances thereof from the radiation source become shorter.